SEQUENCE LISTING

<110> Bruce, Wesley B. <120> A Nitrate-Responsive Root Transcriptional Factor <130> 1263 <150> US 60/238,292 <151> 2000-10-05 <160> 2 <170> FastSEQ for Windows Version 3.0 <210> 1 <211> 1280 <212> DNA <213> Zea mays <220> <221> CDS <222> (360)...(1082) <400> 1 gcacgagecg cectgegeca agaaaageca tegttettee cacaaaegea cacatagaag 60 catcattccc ctctcqqcta qcttcttcct ctctctcct cctcctcctc ttcctcttcc 120 tectecettg ggaaacetge tgeetttgag etttettett egagagetee caccagatet 180 cctcctcctt accttctttg gcacgttcgg cggcgcgcgc ggagaaagat agatcccgcc 240 ategtegteg teggteettg etteegateg gagggeeaca accaeaacet etegeteeat 300 agegtgcaag egegagecag ggtcaagaag agagetaget agetatagge eggagateg 359 atg ggg agg gga aag atc gtg atc cgc agg atc gat aac tcc acg agc 407 Met Gly Arg Gly Lys Ile Val Ile Arg Arg Ile Asp Asn Ser Thr Ser cgg cag gtg acc ttc tcc aag cgc cgg aac ggg atc ttc aag aag gcc 455 Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala 503 aag gag ete gee ate ete tge gat geg gag gte gge ete gte ate tte Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe tcc age acc ggc egc etc tac gag tac tet age acc age atg aaa tea 551 Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser 50 55 gtt ata gat egg tae ggc aag gec aag gaa gag cag caa gte gte gea 599 Val Ile Asp Arg Tyr Gly Lys Ala Lys Glu Glu Gln Gln Val Val Ala 65 70 aat ccc aac tcg gag ctt aag ttt tgg caa agg gag gca gca agc ttg Asn Pro Asn Ser Glu Leu Lys Phe Trp Gln Arg Glu Ala Ala Ser Leu

90

85

-	•	ttg caa gaa Leu Gln Glu 105				695	
9	Ser Gly Lei	aat gtc aaa Asn Val Lys 120	•	-		743	
		cgt ggt gtc Arg Gly Val 135	Arg Ala I			791	
		gat ttg aat Asp Leu Asn				839	
		ı tac aat aag ı Tyr Asn Lys				887	
		aag ata tat Lys Ile Tyr 185				935	
	Glu Ser Pro	act cca ttc Thr Pro Phe 200	-		~	983	
		n ctt gaa ctc n Leu Glu Leu 215	Ser Thr 1	•		1031	
		gct cct aag Ala Pro Lys		•		1079	
tga agaagagtaa aactgccgtc ttatgatgct gaaggaaact atttattgtg *							
aagagatgat actcagagaa agacatattt gtggcaggga gatttgagat atgaacttat aaatgtaatg caaataattt tcagaccgga atggggtcgt ggaattcaga ggatgattgc tttctaaaaa aaaaaaaaa aaaaaaaa							

<210> 2

<211> 240

<212> PRT

<213> Zea mays

<400> 2

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Asn	Pro	Asn	Ser	Glu 85	Leu	Lys	Phe	Trp	Gln 90	Arg	Glu	Ala	Ala	Ser 95	Leu
Arg	Gln	Gln	Leu 100	His	Asn	Leu	Gln	Glu 105	Asn	Tyr	Arg	Gln	Leu 110	Thr	Gly
Asp	Asp	Leu 115	Ser	Gly	Leu	Asn	Val 120	Lys	Glu	Leu	Gln	Ser 125	Leu	Glu	Asn
Gln	Leu 130	Glu	Thr	Ser	Leu	Arg 135	Gly	Val	Arg	Ala	Lys 140	Lys	Asp	His	Leu
Leu 145	Ile	Asp	Glu	Ile	His 150	Asp	Leu	Asn	Arg	Lys 155	Ala	Ser	Leu	Phe	His 160
Gln	Glu	Asn	Thr	Asp 165	Leu	Tyr	Asn	Lys	Ile 170	Asn	Leu	Ile	Arg	Gln 175	Glu
Asn	Asp	Glu	Leu 180	His	Lys	Lys	Ile	Tyr 185	Glu	Thr	Glu	Gly	Pro 190	Ser	Gly
Val	Asn	Arg 195	Glu	Ser	Pro	Thr	Pro 200	Phe	Asn	Phe	Ala	Val 205	Val	Glu	Thr
Arg	Asp 210	Val	Pro	Val	Gln	Leu 215	Glu	Leu	Ser	Thr	Leu 220	Pro	Gln	Gln	Asn
Asn 225	Ile	Glu	Pro	Ser	Thr 230	Ala	Pro	Lys	Leu	Gly 235	Leu	Gln	Leu	Ile	Pro 240